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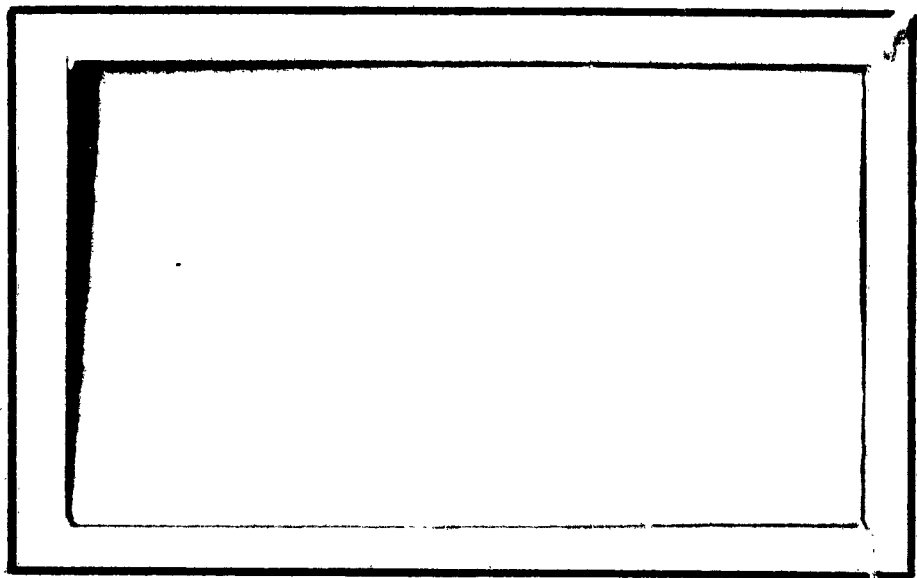
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WOODS HOLE OCEANOGRAPHIC INSTITUTIC



WOODS HOLE, MASSACHUSETTS

WOODS HOLE OCEANOGRAPHIC INSTITUTION

Woods Hole, Massachusetts

Reference No. 53-3

BATHYTHERMOGRAPH DATA

processed, tabulated and filed

during the period

October 1, 1952 - December 31, 1952

Periodic Status Report  
Submitted to Geophysics Branch, Office of Naval Research  
Under Contract Nonr-683(00)(NR-083-019)

January 1953

APPROVED FOR DISTRIBUTION

  
Director

- 1 -

According to the terms of Contract Nonr-683(00)(NR-083-019), the Contractor shall furnish the necessary personnel and facilities for and, in accordance with any instructions issued by the Scientific Officer or his authorized representative, shall conduct research in connection with and the processing of bathythermograms.

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Processing of bathythermograph records

During the period October 1 to December 3, 1952, 8,601 bathythermograph records have been received from sources shown in Table 1. The bathythermograph slides are photographed, the positions plotted, and the data copied. The statistics pertaining to the processing are as follows:

Slides photographed	4,984
Prints completed	15,742
Backlog of slides to be photographed	18,387

Tabulation and filing of bathythermograph records and other hydrographic data

During the period, 5,946 bathythermograph cards were examined and from each the following information was recorded whenever it could be obtained:

Temperature and salinity at the surface;

Temperature and salinity at 30, 50, 100, 150, 250, 330, 490, 655, 820, and 980 feet;

The depth of the surface layer;

Maximum temperature increase with depth.

These data were distributed in the geographical file in groups classified by months and one-degree squares. The geographical file now contains:

198,687	bathythermograph observations
35,190	hydrographic observations
8,512	surface data cards
<u>2,838</u>	mean surface data cards

245,227 total

All examined data recorded on the bathythermograms have been duplicated on the Hydrographic Office set. The above total of bathythermograms examined this quarter includes only those integrated in the W.H.O.I. files.

Catalog of hydrographic sections in the western North Atlantic

Temperature-depth profiles were drawn aboard the R/V ATLANTIS:

Recife to Rio de Janeiro, Brazil, 20 September-  
4 October 1952;

Recife-Trinidad-Bermuda to Woods Hole, 14 October-  
14 December 1952.

Transmittal of hydrographic station data to the Hydrographic  
Office

Transmittal of station data obtained by WHOI vessels  
was completed this quarter. Current data now in the process  
of examination will be transmitted from time to time, upon  
completion.

Personnel

Frederick C. Fuglister (part-time)	Oceanographer
Eileen S. Bergstrom	Senior Technical Assist.
Phyllis Bowman	Junior " "
Allison Chase	" " "
Beverly S. Emery	" " "
Florence Glasser	Technical Assistant
Doris M. Holmes	Junior Technical Assist.
Gracie T. Lake	" " "
Barbara L. Perry	Technical Assistant
Elizabeth Schroeder	Senior Technical Assist.
Joanne T. Spooner	Technical Assistant
Evangeline P. Tollios (part-time)	Senior Technical Assist.

TABLE I

<u>Asc. No.</u>	<u>Area</u>	<u>Vessel</u>	<u>Observation Dates</u>	<u>No. of Slides</u>
2073	Off Cape May.	USCGC BOWEN	VI/25/51 VII/31/51	188
2074	Off Woods Hole.	BEAR	IX/22/52 IX/28/52	191
2075	Off Woods Hole.	BEAR	X/7/52 X/9/52	41
2076	Woods Hole to Gulf Stream and return.	CARYN	IX/25/52 IX/28/52	263
2078	Caribbean Sea.	FWSS T. N. GILL	VIII/15/52 VIII/16/52	5
2079	Panama Canal to Newport to Caribbean	USS HICKOX (DD-673)	X/8/51 XI/12/51	12
2080	Off Cape Hatteras to Caribbean to off New York to Caribbean to off New York to Mediterranean.	USS NORRIS (DDE-859)	X/22/51 V/23/52	137
2081	Caribbean Sea to Mediterranean. Return.	USS BASILONE (DDE-824)	XI/8/51 VIII/6/52	68
2082	Caribbean Sea to Mediterranean.	USS ABBOT (DD-629)	XI/20/51 VIII/1/52	46
2083	Off Azores to Mediterranean to off Norfolk.	USS VOGELGESANG (DD-862)	I/16/52 VII/2/52	60
2084	Off Sable Island to Baffin Bay to off Belle Isle.	USCGC NORTHWIND (WAGB-282)	V/2/52 VIII/27/52	121
2085	Off Georges Shoal to Baffin Bay. Return to off Belle Isle.	USCGC EAST WIND	V/2/52 IX/15/52	161
2086	Guantanamo Bay.	USS HICKOX (DD-673)	V/12/52 V/23/52	13
2087	Boston to Baffin Bay and return.	USS EDISTO	V/24/52 IX/16/52	657



TABLE I (cont'd.)

<u>Asc. No.</u>	<u>Area</u>	<u>Vessel</u>	<u>Observation Dates</u>	<u>No. of Slides</u>
2088	Off Norfolk to England to off Cape Hatteras.	USS HAYNSWORTH (DD-700)	VI/10/52 VIII/24/52	50
2089	Off Norfolk to Mediter- ranean and return.	USS LIOBA (AF-36)	VI/26/52 VIII/2/52	282
2090	Off Cape Hatteras to Caribbean and return.	USS ALCONA (KA-157)	VII/18/52 VIII/2/52	121
2091	Station #8A.	USCGC HUMBOLDT	I/30/52 II/12/52	39
2092	Off Norfolk to Station #10.	USCGC INGHAM	VI/11/52 VII/2/52	101
2093	Off Georges Shoal to Station #8A and return.	USCGC COOK INLET (WAVP-384)	VII/13/52 VIII/7/52	137
2094	Off Georges Shoal to Station #2A.	USCGC CASTLE ROCK	VII/19/52 VIII/16/52	162
2095	Off Cape May to Station #3A.	USCGC MENDOTA	VII/21/52 VIII/16/52	136
2096	Off New York to Station #10 and return.	USCGC HALF MOON (WAVP-378)	VII/23/52 VIII/14/52	140
2097	Off Georges Shoal to Station #4B to off Virgin Rocks.	USCGC SPENCER (WPG-36)	VII/27/52 VIII/24/52	158
2098	Off Georges Shoal to Station #6A to off Sable Island.	USCGC McCULLOCH (WAVP-386)	VII/30/52 VIII/28/52	157
2099	Off Portsmouth to Sta- tion #8A and return.	USCGC BARATARIA	VIII/2/52 VIII/30/52	182
2100	Off Cape Henry to Sta- tion #10 and return.	USCGC UNIMAK	VIII/13/52 IX/4/52	129
2101	Off Cape Henry to Sta- tion #10 and return.	USCGC HUMBOLDT (WAVP-372)	VIII/20/52 IX/5/52	61
2102	Off Georges Shoal to Station #6A. Return to off Virgin Rocks.	USCGC MATAGORDA (WAVP-373)	VIII/22/52 IX/16/52	90

TABLE I (cont'd.)

<u>Asc. No.</u>	<u>Area</u>	<u>Vessel</u>	<u>Observation Dates</u>	<u>No. of Slides</u>
2103	Off Georges Shoal to Station #10.	USCGC BIEB	IX/3/52 IX/23/52	53
2104	Woods Hole to Gulf Stream.	BEAR	VII/20/52 VII/23/52	105
2105	Cape Cod Canal to Boston.	ASTERIAS	X/20/52 X/22/52	49
2106	North Sea.	HMS LOCH TRALAIG	V/25/50 VI/15/50	8
2107	Off England.	HMS CREOLE	V/12/51 VII/23/52	11
2108	Mediterranean Sea to Persian Gulf and return.	HMS DALRYMPLE	VII/9/51 IV/24/52	91
2109	Mediterranean Sea to North Sea.	HMS PATFLEAXE	III/23/52 VI/12/52	12
2110	Off Georges Shoal to Barents Sea. Return to north of Virgin Rocks.	USS REHOBOOTH (AGS-50)	VI/13/52 VIII/28/52	1,390
2111	Off Georges Shoal to Barents Sea. Return to off Virgin Rocks.	USS SAN PABLO (AGS-30)	VI/13/52 VIII/29/52	1,537
2112	Kennebec River.	CARYN	XII/8/52 XII/10/52	24
2113	Off Georges Shoal to off Cape Hatteras.	FWSS ALASKA	VIII/2/52 IX/4/52	49
2114	Off Bermuda.	FWSS ALASKA	IX/20/52 IX/22/52	50
2115	Caribbean Sea to Medi- terranean Sea.	USS MELVIN (DD-680)	III/5/52 VI/11/52	38
2116	Off Norfolk to Medi- terranean.	USS RICH (DDE-820)	III/10/52 X/29/52	100
2117	Off Cape Henlopen to off Newfoundland. Re- turn to off Cape Hatteras.	USS LIOBA	IV/3/52 IV/18/52	89

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